Andrew U Frank

List of Publications by Year
in descending order

29 papers	1,112 citations	759233 12 h-index	580821 25 g-index
29 all docs	29 docs citations	29 times ranked	593 citing authors

#	Article	IF	Citations
1	Qualitative spatial reasoning about distances and directions in geographic space. Journal of Visual Languages and Computing, 1992, 3, 343-371.	1.8	329
2	Qualitative spatial reasoning: cardinal directions as an example. International Journal of Geographical Information Science, 1996, 10, 269-290.	4.8	224
3	Tiers of ontology and consistency constraints in geographical information systems. International Journal of Geographical Information Science, 2001, 15, 667-678.	4.8	145
4	Spatial concepts, geometric data models, and geometric data structures. Computers and Geosciences, 1992, 18, 409-417.	4.2	63
5	Chapter 2: Ontology for Spatio-temporal Databases. Lecture Notes in Computer Science, 2003, , 9-77.	1.3	44
6	Topology in Raster and Vector Representation. GeoInformatica, 2000, 4, 35-65.	2.7	38
7	Spatial Ontology: A Geographical Information Point of View. , 1997, , 135-153.		38
8	Title is missing!. Spatial Cognition and Computation, 1999, 1, 67-101.	1.2	30
9	Analysis of dependence of decision quality on data quality. Journal of Geographical Systems, 2008, 10, 71-88.	3.1	28
10	Formalization of families of categorical coverages. International Journal of Geographical Information Science, 1997, 11, 215-231.	4.8	22
11	Specifying open GIS with functional languages. Lecture Notes in Computer Science, 1995, , 184-195.	1.3	22
12	Formal Models for Cognition â€" Taxonomy of Spatial Location Description and Frames of Reference. Lecture Notes in Computer Science, 1998, , 293-312.	1.3	22
13	Spatial Communication with Maps: Defining the Correctness of Maps Using a Multi-Agent Simulation. Lecture Notes in Computer Science, 2000, , 80-99.	1.3	18
14	Data Quality Ontology: An Ontology for Imperfect Knowledge. , 2007, , 406-420.		17
15	Expert Systems and Geographic Information Systems: Review and Prospects. Journal of Surveying Engineering, - ASCE, 1986, 112, 119-130.	1.7	13
16	Formalization of conceptual models for GIS using Gofer. Computers, Environment and Urban Systems, 1995, 19, 89-98.	7.1	11
17	Computer cartography for GIS: An object-oriented view on the display transformation. Computers and Geosciences, 1992, 18, 975-987.	4.2	10
18	Introduction to Expert Systems for Land Information Systems. Journal of Surveying Engineering, - ASCE, 1986, 112, 109-118.	1.7	7

#	Article	IF	Citations
19	Incompleteness, Error, Approximation, and Uncertainty: an Ontological Approach to Data Quality. NATO Science for Peace and Security Series C: Environmental Security, 2007, , 107-131.	0.2	7
20	Computer Assisted Cartography: Graphics or Geometry?. Journal of Surveying Engineering, - ASCE, 1984, 110, 159-168.	1.7	5
21	Composing Models of Geographic Physical Processes. Lecture Notes in Computer Science, 2009, , 421-435.	1.3	4
22	Multi-cultural Aspects of Spatial Knowledge. Lecture Notes in Computer Science, 2009, , 1-8.	1.3	4
23	A Computational Model for Context andÂSpatial Concepts. Lecture Notes in Geoinformation and Cartography, 2016, , 3-19.	1.0	3
24	Why Is Scale an Effective Descriptor for Data Quality? The Physical and Ontological Rationale for Imprecision and Level of Detail. Lecture Notes in Geoinformation and Cartography, 2009, , 39-61.	1.0	3
25	Toward a Method to Generally Describe Physical Spatial Processes. Lecture Notes in Geoinformation and Cartography, 2008, , 217-232.	1.0	2
26	Sandbox Geography â€" To learn from children the form of spatial concepts. , 2005, , 421-433.		1
27	Information Processes Produce Imperfections in Dataâ€"The Information Infrastructure Compensates for Them. Lecture Notes in Geoinformation and Cartography, 2008, , 467-485.	1.0	1
28	Researching Cognitive and Linguistic Aspects of Geographic Space: Las Navas Then and Now. Lecture Notes in Geoinformation and Cartography, 2013, , 1-22.	1.0	1
29	Spatial Information Technology: Past, Present, Future. Communications in Computer and Information Science, 2021, , 1-17.	0.5	0